

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 4412
Order No. R-4025

APPLICATION OF CONTINENTAL OIL
COMPANY FOR A PRESSURE MAINTENANCE
PROJECT, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9:30 a.m. on August 19, 1970, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 10th day of September, 1970, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Continental Oil Company, seeks authority to institute a pressure maintenance project in the Scarborough Yates-Seven Rivers Pool on its McCallister "A" Lease in Section 24, Township 26 South, Range 36 East, NMPM, Lea County, New Mexico, by the injection of water into the Yates and Seven Rivers formations through its McCallister "A" Well No. 2, located 330 feet from the North line and 990 feet from the East line of said Section 24, and through its McCallister "A" Well No. 3, located 660 feet from the South line and 660 feet from the East line of said Section 24.

(3) That the proposed pressure maintenance project is in the interest of conservation and should result in greater ultimate recovery of oil, thereby preventing waste.

(4) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Continental Oil Company, is hereby authorized to institute a pressure maintenance project in the

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CASE No. 4412
Order No. R-4026

Scarborough Yates-Seven Rivers Pool on its McCallister "A" Lease in Section 24, Township 26 South, Range 36 East, NMPM, Lea County, New Mexico, by the injection of produced salt water into the Yates and Seven Rivers formations through its following-described wells in said Section 24:

McCallister "A" Well No. 2, located 330 feet from the North line and 990 feet from the East line, injection to be accomplished through 2 3/8-inch plastic-lined tubing installed in a packer set at approximately 3010 feet, with injection into the perforated interval from 3045 feet to 3063 feet and into the open-hole interval from 3076 feet to 3217 feet; and

McCallister "A" Well No. 3, located 660 feet from the South line and 660 feet from the East line, injection to be accomplished through 2 3/8-inch plastic-lined tubing installed in a packer set at approximately 3010 feet, with injection into the perforated interval from 3039 feet to 3100 feet and into the open-hole interval from 3133 feet to 3245 feet;

PROVIDED HOWEVER, that the casing-tubing annulus shall be filled with an inert fluid and that a pressure gauge shall be attached to the annulus at the surface in order to determine leakage in the tubing, casing, or packer.

(2) That the subject pressure maintenance project is hereby designated the Continental McCallister "A" Scarborough Pressure Maintenance Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

(3) That monthly progress reports of the pressure maintenance project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

David F. Cargo
DAVID F. CARGO, Chairman

Alex J. Armijo
ALEX J. ARMIJO, Member

A. L. Porter, Jr.
A. L. PORTER, Jr., Member & Secretary

esr/



CONTINENTAL OIL COMPANY

P. O. Box 460
HOBBS, NEW MEXICO 88240

July 29, 1970

1001 NORTH TURNER
TELEPHONE 393-4141

PRODUCTION DEPARTMENT
HOBBS DIVISION
L. P. THOMPSON
Division Manager
G. C. JAMIESON
Assistant Division Manager

Case 4412

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr., Secretary Director

Gentlemen:

Subject: Application for Approval to Expand Scarborough
Yates-Seven Rivers Pressure Maintenance Project

Forwarded herewith in triplicate is our Application for approval of our proposed expansion of the Scarborough Yates-Seven Rivers pressure maintenance project. We should appreciate your placing this matter for hearing on the August 19th docket.

Very truly yours,

LPT:JM
CC: NMOCC - Hobbs
RLA JJB JWK
Atlantic-Richfield
Chevron Oil Company
Pan American Petroleum Corp.

DOCKET MAILED

8-6-70

BEFORE THE OIL CONSERVATION COMMISSION
OF THE
STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF
CONTINENTAL OIL COMPANY FOR AUTHORITY
TO EXPAND THE SCARBOROUGH YATES-SEVEN
RIVERS PRESSURE MAINTENANCE PROJECT
BY CONVERTING TWO ADDITIONAL INJECTION
WELLS IN SECTION 24, T-26S R-36E,
LEA COUNTY NEW MEXICO

Case 4412

A P P L I C A T I O N

Comes now, Continental Oil Company and respectfully prays that authority be given to expand the Scarborough Yates-Seven Rivers pressure maintenance project created by Order No. R-3487-A, by the addition of two injection wells in Section 24, T-26S R-36E, Lea County, New Mexico, and in support thereof would show:


1. Applicant is operator and co-owner of the Eaves "A", Eaves "B" and McCallister "A" leases which produce oil from the Scarborough Yates-Seven Rivers Pool.
2. Order No. R-3487-A approved a pressure maintenance project for said pool and the conversion of Eaves A Well No. 10 to water injection.
3. Applicant has heretofore drilled and completed in said Scarborough Yates-Seven Rivers Pool its McCallister "A" No. 2 well at a location 330 feet from the north line 990 feet from the east line of Section 24, T-26S R-36E.
4. Applicant has heretofore drilled and completed in the Scarborough Yates-Seven Rivers Pool its McCallister "A" No. 3 well, located 660 feet from the south line and 660 feet from the east line of said Section 24.
5. Applicant now desires to inject water produced from the Scarborough Yates-Seven Rivers Pool into either or both of said wells.
6. The injection of water as proposed herein will prevent waste and will not impair correlative rights.

Application
Page 2

WHEREFORE, applicant respectfully prays that this matter be set for hearing before the commission's duly appointed examiner and upon hearing, an order be entered authorizing the expansion of the Scarborough Yates-Seven Rivers pressure maintenance project as described above.

Respectfully submitted,

CONTINENTAL OIL COMPANY

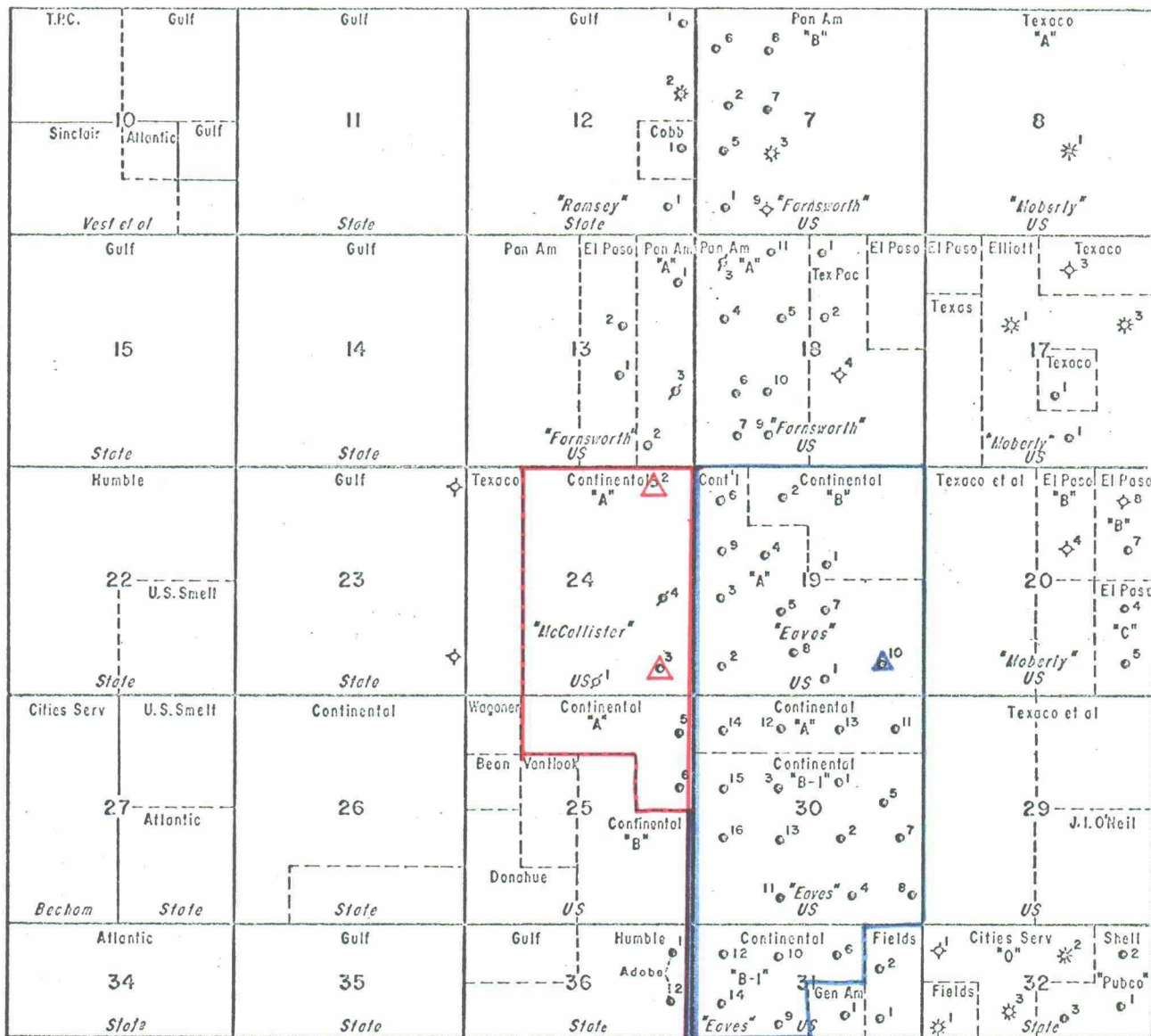
A handwritten signature in black ink, appearing to read "G. C. Jamieson", written in a cursive style.





G. C. Jamieson
Assistant Division Manager
Of Production

GCJ:JM

R36E

R37E



-  Proposed expansion area
-  Proposed injection wells
-  Present P.M. project area
-  Present injection well

CONTINENTAL OIL COMPANY

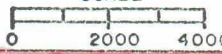
PRODUCTION DEPARTMENT—HOBBS DIVISION

SCARBOROUGH POOL

LEA COUNTY, NEW MEXICO

PRESSURE MAINTENANCE PROJECT

SCALE



Case 4412

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

70 AUG 25 1968

OPERATOR Continental Oil Company		ADDRESS P. O. Box 460, Hobbs, New Mexico	
LEASE NAME McCallister A	WELL NO. 2	FIELD Scarborough	COUNTY Lea
LOCATION UNIT LETTER A ; WELL IS LOCATED 330 FEET FROM THE N LINE AND 990 FEET FROM THE E LINE, SECTION 24 TOWNSHIP 26S RANGE 36E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	15 1/2"	247'	40	145'	Calc.
INTERMEDIATE	8 1/4"	1525'	100	810'	Calc.
LONG STRING	7"	3076'	100	2000'	Calc.
TUBING	2 3/8"	3010'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Tension Model AD-1 (or above top perf.)		

NAME OF PROPOSED INJECTION FORMATION Yates & Seven Rivers		TOP OF FORMATION (Yates) 2975'	BOTTOM OF FORMATION 3240' 3260' est
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing	PERFORATIONS OR OPEN HOLES? Both	PROPOSED INTERVAL(S) OF INJECTION Perfs 2990-3070' & O.H. 3076-3360'	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Producing oil well		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH
None

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None
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ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 400	MINIMUM 1500	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity	APPROX. PRESSURE (PSI) 0
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ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -	WATER TO BE DISPOSED OF No	NATURAL WATER IN DISPOSAL ZONE No	ARE WATER ANALYSES ATTACHED? Yes
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NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)
Mr. Frank Anthony, Box 1612, Monahans, Texas

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL
El Paso Natural Gas Company, Jal, New Mexico

Pan American Petroleum Corporation, Box 68, Hobbs, New Mexico

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	PLAT OF AREA	ELECTRICAL LOG	DIAGRAMMATIC SKETCH OF WELL

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

(Signature) _____ (Title) _____ (Date) _____

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

NEW MEXICO OIL CONSERVATION COMMISSION
 APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

70 AUG 25 1968

OPERATOR Continental Oil Company		ADDRESS P. O. Box 460, Hobbs, New Mexico	
LEASE NAME McCallister A	WELL NO. 3	FIELD Scarborough	COUNTY Lea
LOCATION UNIT LETTER P ; WELL IS LOCATED 660 FEET FROM THE S LINE AND 660 FEET FROM THE E LINE, SECTION 24 TOWNSHIP 26S RANGE 36E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13"	462'	400	0'	Calc.
INTERMEDIATE	9 5/8"	2802'	900	0'	Calc.
LONG STRING	7"	3133'	400	500'	Calc.
TUBING	2 3/8"	3010'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker AD-1 or equivalent @ 3010'		
NAME OF PROPOSED INJECTION FORMATION Yates & Seven Rivers		TOP OF FORMATION (Yates) 2983'		BOTTOM OF FORMATION 3270' est.	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Both	PROPOSED INTERVAL(S) OF INJECTION 2985'-3125' and 3370'-3370' 3039'-3100' and 3133'-3245'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Producing Oil Well		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH None					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 200'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 400	MINIMUM 1500	MAXIMUM 1500	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity	APPROX. PRESSURE (PSI) 0
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - No			WATER TO BE DISPOSED OF No	NATURAL WATER IN DISPOSAL ZONE No	ARE WATER ANALYSES ATTACHED? Yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Mr. Frank Anthony, Box 1612, Monahans, Texas					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL None					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA		ELECTRICAL LOG	
				DIAGRAMMATIC SKETCH OF WELL	

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

(Signature)

(Title)

(Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.